RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/700,590A

DATE: 07/31/2002 P.6
TIME: 15:17:41

Input Set : A:\pf0526usn_suppseqlist.txt
Output Set: N:\CRF3\07312002\I700590A.raw

```
 1 <110> APPLICANT: INCYTE GENOMICS, INC.
 2       TANG, Y. Tom
 3       LAL, Preeti
 4       HILLMAN, Jennifer L.
 5       YUE, Henry
 6       GUEGLER, Karl J.
 7       CORLEY, Neil C.
 8       BANDMAN, Olga
 9       PATTERSON, Chandra
10       GORGONE, Gina A.
11       KASER, Matthew R.
12       BAUGHN, Mariah R.
13       AU-YOUNG, Janice
15 <120> TITLE OF INVENTION: HUMAN TRANSMEMBRANE PROTEINS
17 <130> FILE REFERENCE: PF-0526 USN
C--> 19 <140> CURRENT APPLICATION NUMBER: US/09/700,590A
C--> 20 <141> CURRENT FILING DATE: 2001-04-16
22 <150> PRIOR APPLICATION NUMBER: 60/087,260
W--> 23 <151> PRIOR FILING DATE: 05-29-1998
25 <150> PRIOR APPLICATION NUMBER: 60/091,674
W--> 26 <151> PRIOR FILING DATE: 07-02-1998
28 <150> PRIOR APPLICATION NUMBER: 60/102,954
W--> 29 <151> PRIOR FILING DATE: 10-02-1998
31 <150> PRIOR APPLICATION NUMBER: 60/109,869
W--> 32 <151> PRIOR FILING DATE: 11-24-1998
34 <160> NUMBER OF SEQ ID NOS: 158
35 <170> SOFTWARE: PERL Program
37 <210> SEQ ID NO: 1
38 <211> LENGTH: 240
39 <212> TYPE: PRT
40 <213> ORGANISM: Homo sapiens
42 <220> FEATURE:
43 <221> NAME/KEY: misc_feature
44 <223> OTHER INFORMATION: Incyte ID No: 153831
46 <400> SEQUENCE: 1
47 Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala
48  1               5                  10                  15
49 His His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu
50                  20                  25                  30
51 Gly Leu Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg
52                  35                  40                  45
53 Thr Gly Leu Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe
54                  50                  55                  60
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Input Set : A:\pf0526usn_suppseqlist.txt
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```
55 Leu Arg Ser Phe Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly Thr
56               65              70                    75
57 Val Thr Gly Lys Trp Arg Gly Ser His Val Val Gly Leu Leu Thr
58               80              85                    90
59 Thr Leu Asn Phe Gly Asp Gly Pro Asp Arg Asn Lys Thr Arg Thr
60               95              100                   105
61 Phe Gln Ala Thr Val Leu Gly Ser Gln Met Gly Leu Lys Gly Ser
62               110             115                   120
63 Ser Ala Gly Gln Leu Val Leu Ile Thr Ala Arg Val Thr Thr Glu
64               125             130                   135
65 Arg Thr Ala Gly Thr Cys Leu Tyr Phe Ser Ala Val Pro Gly Ile
66               140             145                   150
67 Leu Pro Ser Ser Gln Pro Pro Ile Ser Cys Ser Glu Glu Gly Ala
68               155             160                   165
69 Gly Asn Ala Thr Leu Ser Pro Arg Met Gly Glu Glu Cys Val Ser
70               170             175                   180
71 Val Trp Ser His Glu Gly Leu Val Leu Thr Lys Leu Leu Thr Ser
72               185             190                   195
73 Glu Glu Leu Ala Leu Cys Gly Ser Arg Leu Leu Val Leu Gly Ser
74               200             205                   210
75 Phe Leu Leu Leu Phe Cys Gly Leu Leu Cys Cys Val Thr Ala Met
76               215             220                   225
77 Cys Phe His Pro Arg Arg Glu Ser His Trp Ser Arg Thr Arg Leu
78               230             235                   240
81 <210> SEQ ID NO: 2
82 <211> LENGTH: 100
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <220> FEATURE:
87 <221> NAME/KEY: misc_feature
88 <223> OTHER INFORMATION: Incyte ID No: 350629
90 <400> SEQUENCE: 2
91 Met Glu Gly Leu Arg Ser Ser Val Glu Leu Asp Pro Glu Leu Thr
92   1             5               10                    15
93 Pro Gly Lys Leu Asp Glu Glu Met Val Gly Leu Pro Pro His Asp
94               20              25                    30
95 Ala Ser Pro Gln Val Thr Phe His Ser Leu Asp Gly Lys Thr Val
96               35              40                    45
97 Val Cys Pro His Phe Met Gly Leu Leu Leu Gly Leu Leu Leu Leu
98               50              55                    60
99 Leu Thr Leu Ser Val Arg Asn Gln Leu Cys Val Arg Gly Glu Arg
100              65              70                    75
101 Gln Leu Ala Glu Thr Leu His Ser Gln Val Lys Glu Lys Ser Gln
102              80              85                    90
103 Leu Ile Gly Lys Lys Thr Asp Cys Arg Asp
104              95              100
106 <210> SEQ ID NO: 3
107 <211> LENGTH: 416
108 <212> TYPE: PRT
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109 <213> ORGANISM: Homo sapiens
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <223> OTHER INFORMATION: Incyte ID No: 729171
115 <400> SEQUENCE: 3
116 Met Ser Gly His Arg Ser Thr Arg Lys Arg Cys Gly Asp Ser His
117  1               5                  10                  15
118 Pro Glu Ser Pro Val Gly Phe Gly His Met Ser Thr Thr Gly Cys
119               20                  25                  30
120 Val Leu Asn Lys Leu Phe Gln Leu Pro Thr Pro Pro Leu Ser Arg
121               35                  40                  45
122 His Gln Leu Lys Arg Leu Glu Glu His Arg Tyr Gln Ser Ala Gly
123               50                  55                  60
124 Arg Ser Leu Leu Glu Pro Leu Val Gln Gly Tyr Trp Glu Trp Leu
125               65                  70                  75
126 Val Arg Arg Val Pro Ser Trp Ile Ala Pro Asn Leu Ile Thr Ile
127               80                  85                  90
128 Ile Gly Leu Ser Ile Asn Ile Cys Thr Thr Ile Leu Leu Val Phe
129               95                  100                 105
130 Tyr Cys Pro Thr Ala Thr Glu Gln Ala Pro Leu Trp Ala Tyr Ile
131               110                 115                 120
132 Ala Cys Ala Cys Gly Leu Phe Ile Tyr Gln Ser Leu Asp Ala Ile
133               125                 130                 135
134 Gly Gly Lys Gln Ala Arg Arg Thr Asn Ser Ser Ser Pro Leu Gly
135               140                 145                 150
136 Glu Leu Phe Asp His Gly Cys Asp Ser Leu Ser Thr Val Phe Val
137               155                 160                 165
138 Val Leu Gly Thr Cys Ile Ala Val Gln Leu Gly Thr Asn Pro Asp
139               170                 175                 180
140 Trp Met Phe Phe Cys Cys Phe Ala Gly Thr Phe Met Phe Tyr Cys
141               185                 190                 195
142 Ala His Trp Gln Thr Tyr Val Ser Gly Thr Leu Arg Phe Gly Ile
143               200                 205                 210
144 Ile Asp Val Thr Glu Val Gln Ile Phe Ile Ile Ile Met His Leu
145               215                 220                 225
146 Leu Ala Val Met Gly Gly Pro Pro Phe Trp Gln Ser Met Ile Pro
147               230                 235                 240
148 Val Leu Asn Ile Gln Met Lys Ile Phe Pro Ala Leu Cys Thr Val
149               245                 250                 255
150 Ala Gly Thr Ile Phe Pro Val Thr Asn Tyr Phe Arg Val Ile Phe
151               260                 265                 270
152 Thr Gly Gly Val Gly Lys Asn Gly Ser Thr Ile Ala Gly Thr Ser
153               275                 280                 285
154 Val Leu Ser Pro Phe Leu His Ile Gly Ser Val Ile Thr Leu Ala
155               290                 295                 300
156 Ala Met Ile Tyr Lys Lys Ser Ala Val Gln Leu Phe Glu Lys His
157               305                 310                 315
158 Pro Cys Leu Tyr Ile Leu Thr Phe Gly Phe Val Ser Ala Lys Ile
159               320                 325                 330
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7/31/02

RAW SEQUENCE LISTING   DATE: 07/31/2002
PATENT APPLICATION: US/09/700,590A   TIME: 15:17:41

Input Set : A:\pf0526usn_suppseqlist.txt
Output Set: N:\CRF3\07312002\I700590A.raw

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160 Thr Asn Lys Leu Val Val Ala His Met Thr Lys Ser Glu Met His
161             335             340             345
162 Leu His Asp Thr Ala Phe Ile Gly Pro Ala Leu Leu Phe Leu Asp
163             350             355             360
164 Gln Tyr Phe Asn Ser Phe Ile Asp Glu Tyr Ile Val Leu Trp Ile
165             365             370             375
166 Ala Leu Val Phe Ser Phe Phe Asp Leu Ile Arg Tyr Cys Val Ser
167             380             385             390
168 Val Cys Asn Gln Ile Ala Ser His Leu His Ile His Val Phe Arg
169             395             400             405
170 Ile Lys Val Ser Thr Ala His Ser Asn His His
171             410             415
173 <210> SEQ ID NO: 4
174 <211> LENGTH: 224
175 <212> TYPE: PRT
176 <213> ORGANISM: Homo sapiens
178 <220> FEATURE:
179 <221> NAME/KEY: misc_feature
180 <223> OTHER INFORMATION: Incyte ID No: 1273641
182 <400> SEQUENCE: 4
183 Met Thr Ile Thr Ser Phe Tyr Ala Val Cys Phe Tyr Leu Leu Met
184   1             5             10             15
185 Leu Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg
186             20             25             30
187 Thr Leu Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys
188             35             40             45
189 Cys Cys Cys Pro Cys Cys Gln Arg Leu Leu Leu Thr Arg Lys Lys
190             50             55             60
191 Leu Gln Leu Leu Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys
192             65             70             75
193 Ile Thr Leu Thr Trp Trp Ala Leu Phe Ser Ser Pro Thr Glu Ser
194             80             85             90
195 Tyr Asp Pro Ala Asp Ile Ser Glu Gly Ser Thr Ala Leu Trp Ile
196             95             100             105
197 Asn Thr Phe Leu Gly Val Ser Thr Leu Leu Ala Leu Trp Thr Leu
198             110             115             120
199 Gly Ile Ile Ser Arg Gln Ala Arg Leu His Leu Gly Glu Gln Asn
200             125             130             135
201 Met Gly Ala Lys Phe Ala Leu Phe Gln Val Leu Leu Ile Leu Thr
202             140             145             150
203 Ala Leu Gln Pro Ser Ile Phe Ser Val Leu Ala Asn Gly Gly Gln
204             155             160             165
205 Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr Arg Ser Gln Val
206             170             175             180
207 Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu Met Thr Val
208             185             190             195
209 Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val Gly Tyr
210             200             205             210
211 Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Leu Lys Ala
```

RAW SEQUENCE LISTING   DATE: 07/31/2002
PATENT APPLICATION: US/09/700,590A   TIME: 15:17:41

Input Set : A:\pf0526usn_suppseqlist.txt
Output Set: N:\CRF3\07312002\I700590A.raw

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212              215                 220
214 <210> SEQ ID NO: 5
215 <211> LENGTH: 247
216 <212> TYPE: PRT
217 <213> ORGANISM: Homo sapiens
219 <220> FEATURE:
220 <221> NAME/KEY: misc_feature
221 <223> OTHER INFORMATION: Incyte ID No: 1427389
223 <400> SEQUENCE: 5
224 Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly
225   1               5                  10                  15
226 Pro Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu
227                  20                  25                  30
228 Arg Val Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser
229                  35                  40                  45
230 Leu Leu Leu Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr
231                  50                  55                  60
232 Asp Arg Ser Asp Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly
233                  65                  70                  75
234 Ala Ala Val Ser Val Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr
235                  80                  85                  90
236 Tyr Lys Leu Leu Lys Lys Ala Asp Glu Gly Leu Ala Ser Leu Ser
237                  95                 100                 105
238 Glu Asp Gly Arg Ser Pro Ile Ser Ile Arg Gln Met Ala Tyr Val
239                 110                 115                 120
240 Ser Gly Leu Ser Phe Gly Ile Ile Ser Gly Val Phe Ser Val Ile
241                 125                 130                 135
242 Asn Ile Leu Ala Asp Ala Leu Gly Pro Gly Val Val Gly Ile His
243                 140                 145                 150
244 Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser Ala Phe Leu Thr Ala
245                 155                 160                 165
246 Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val Val Phe Phe Asp
247                 170                 175                 180
248 Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu Val Val Gly
249                 185                 190                 195
250 Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro Trp Tyr
251                 200                 205                 210
252 Glu Ala Ser Leu Leu Pro Ile Tyr Ala Val Thr Val Ser Met Gly
253                 215                 220                 225
254 Leu Trp Ala Phe Ile Thr Ala Gly Gly Ser Leu Arg Ser Ile Gln
255                 230                 235                 240
256 Arg Ser Leu Leu Cys Lys Asp
257                 245
259 <210> SEQ ID NO: 6
260 <211> LENGTH: 72
261 <212> TYPE: PRT
262 <213> ORGANISM: Homo sapiens
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/31/2002
PATENT APPLICATION: US/09/700,590A   TIME: 15:17:42

Input Set : **A:\pf0526usn_suppseqlist.txt**
Output Set: **N:\CRF3\07312002\I700590A.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; Xaa Pos. 434
Seq#:101; N Pos. 2084,2101,2110,2128,2137,2156,2177,2226,2265,2296,2303
Seq#:101; N Pos. 2310,2325
Seq#:102; N Pos. 1346,1373,1430
Seq#:119; N Pos. 1032,1037,1042
Seq#:120; N Pos. 1893,1896,1899,1906,1911,1921,1926,1927,1928,1929,1932
Seq#:120; N Pos. 1935,1940,1948,1950,1951,1953
Seq#:134; N Pos. 814

VERIFICATION SUMMARY   DATE: 07/31/2002
PATENT APPLICATION: **US/09/700,590A**   TIME: 15:17:42

Input Set : **A:\pf0526usn_suppseqlist.txt**
Output Set: **N:\CRF3\07312002\I700590A.raw**

L:19 M:270 C: Current Application Number differs, Replaced Current Application Number
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:23 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:26 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:29 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:32 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:1003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:420
L:4297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2040
L:4298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2100
L:4299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2160
L:4300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2220
L:4301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2280
L:4340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:1320
L:4341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:1380
L:4944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:1020
L:4993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:1860
L:4994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:1920
L:5477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:780